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(54) V-TYPE INTERNAL-COMBUSTION ENGINE

(57)Abstract:

PURPOSE: To miniaturize the engine by a method wherein proper amounts of offsets are provided between neighboring cylinders and the openings of suction ports for both of engine blocks, in the engine in which two sets of the engine blocks having a crank shaft in common are arranged in a V-shape.

CONSTITUTION: In the engine in which the first and second engine blocks 31, 32 are arranged in front and rear so as to be formed into the V-shape and to have the crank shaft supported by a crank case commonly, the cylinder 42 of the block 32 is arranged in offset by a distance ϵ psi;1 between axial lines of neighboring connecting rods 51, 52 with respect to the cylinder 41 of the block 31. The suction ports 81, 82, opened and closed by a pair of suction valves 61, 62 are opened in the opposing surface of both blocks 31, 32 and the centers of the openings 81a, 82a are offsetted by a distance ϵ psi;2 with respect to the centers of the corresponding cylinders 41, 42. According to this method, a big amount of offset of ϵ psi;1+2 x ϵ psi;2 may be obtained and the disposition of the carburetors 91, 92 may be facilitated.

